In the Claims

1-23 (canceled).

24 (new). A composition of matter comprising:

- a) a DNA construct comprising a sequence encoding an IgSP-tPA prepropeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
- b) a DNA construct comprising a sequence encoding an IgSP-tPA prepropeptide comprising a murine immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
- c) a DNA construct comprising a sequence encoding an IgSP-tPA prepropeptide comprising the murine immunoglobulin signal peptide (IgSP) of SEQ ID NO: 3 fused to a tissue-type plasminogen activator (tPA) propeptide;
- d) a DNA construct comprising a sequence encoding a fusion protein, said fusion protein comprising an IgSP-tPA pre-propeptide fused to a polypeptide of interest and said IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
- e) a DNA construct comprising a sequence encoding a human tissue-type plasminogen activator propeptide (tPA) wherein the carboxyl-terminal extremity of said tPA propeptide consists of amino acids Arg-Xaa-Arg-Arg;
- f) a vector comprising a DNA construct comprising a sequence encoding an IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
- g) a vector comprising a DNA construct comprising a sequence encoding an IgSP-tPA pre-propeptide comprising a murine immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;

- h) a vector comprising a DNA construct comprising a sequence encoding an IgSP-tPA pre-propeptide comprising the murine immunoglobulin signal peptide (IgSP) of SEQ ID NO: 3 fused to a tissue-type plasminogen activator (tPA) propeptide;
- i) a vector comprising a DNA construct comprising a sequence encoding a fusion protein, said fusion protein comprising an IgSP-tPA pre-propeptide fused to a polypeptide of interest and said IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
- j) a vector comprising a DNA construct comprising a sequence encoding a human tissue-type plasminogen activator propeptide (tPA) wherein the carboxyl-terminal extremity of said tPA propeptide consists of amino acids Arg-Xaa-Arg-Arg; or
- k) a host cell transformed with the DNA construct or vector comprising:
 - a DNA construct comprising a sequence encoding an IgSP-tPA prepropeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
 - 2) a DNA construct comprising a sequence encoding an IgSP-tPA prepropeptide comprising a murine immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
 - a DNA construct comprising a sequence encoding an IgSP-tPA prepropeptide comprising the murine immunoglobulin signal peptide (IgSP) of SEQ ID NO: 3 fused to a tissue-type plasminogen activator (tPA) propeptide;
 - a DNA construct comprising a sequence encoding a fusion protein, said fusion protein comprising an IgSP-tPA pre-propeptide fused to a polypeptide of interest and said IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;

- 5) a DNA construct comprising a sequence encoding a human tissuetype plasminogen activator propeptide (tPA) wherein the carboxylterminal extremity of said tPA propeptide consists of amino acids Arg-Xaa-Arg-Arg;
- a vector comprising a DNA construct comprising a sequence encoding an IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
- 7) a vector comprising a DNA construct comprising a sequence encoding an IgSP-tPA pre-propertide comprising a murine immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propertide;
- 8) a vector comprising a DNA construct comprising a sequence encoding an IgSP-tPA pre-propertide comprising the murine immunoglobulin signal peptide (IgSP) of SEQ ID NO: 3 fused to a tissue-type plasminogen activator (tPA) propertide;
- 9) a vector comprising a DNA construct comprising a sequence encoding a fusion protein, said fusion protein comprising an IgSP-tPA pre-propeptide fused to a polypeptide of interest and said IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide; or
- a vector comprising a DNA construct comprising a sequence encoding a human tissue-type plasminogen activator propeptide (tPA) wherein the carboxyl-terminal extremity of said tPA propeptide consists of amino acids Arg-Xaa-Arg-Arg.

- 25 (new). The composition of matter according to claim 24, wherein the tPA propeptide encoded by said DNA construct is a human tPA propeptide, the carboxyl-terminal extremity of said tPA propeptide consisting of amino acids Arg-Xaa-Arg-Arg.
- 26 (new). The composition of matter according to claim 25, wherein said tPA propertide consists of amino acids 23 to 32 of SEQ ID NO: 2.
- 27 (new). The composition of matter according to claim 24, wherein the pre-propeptide encoded by said genetic construct comprises SEQ ID NO: 1.
- 28 (new). The composition of matter according to claim 25, wherein the pre-propeptide encoded by said genetic construct comprises SEQ ID NO: 1.
- 29 (new). The composition of matter according to claim 26, wherein the pre-propeptide encoded by said genetic construct comprises SEQ ID NO: 1.
- 30 (new). The composition of matter according to claim 24, wherein said vector is an expression vector.
- 31 (new). The composition of matter according to claim 24, wherein said vector is a vector for performing gene activation.
- 32 (new). The composition of matter according to claim 24, wherein the host cell comprises a DNA construct encoding human tPA propertide, the carboxyl-terminal extremity of said tPA propertide consisting of amino acids Arg-Xaa-Arg-Arg.
- 33 (new). The composition of matter according to claim 24, wherein the host cell comprises a DNA construct encoding a tPA propertide consisting of amino acids 23 to 32 of SEQ ID NO: 2.

- 34 (new). The composition of matter according to claim 24, wherein the host cell comprises a DNA construct and the pre-propeptide encoded by said DNA construct comprises SEQ ID NO: 1.
- 35 (new). The composition of matter according to claim 24, wherein said host cell is selected from the group consisting of a CHO cell, a COS cell, a CV1 cell, a mouse L cell, a HT1080 cell, a BHK cell, a HEK293 cell, a NIH-3T3 cell, a LM cell and a Yl cell, NS0 and SP2/0 mouse hybridoma and the like, Namalwa, RPMI-8226, Vero, WI-38, and MRC-5.
 - 36 (new). The composition of matter according to 35, wherein said cell is a CHO cell.
- 37 (new). A process for the production of a polypeptide of interest comprising the step of transfecting a host cell with a DNA construct or vector comprising:
 - a) a DNA construct comprising a sequence encoding an IgSP-tPA prepropeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
 - b) a DNA construct comprising a sequence encoding an IgSP-tPA prepropeptide comprising a murine immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
 - c) a DNA construct comprising a sequence encoding an IgSP-tPA prepropeptide comprising the murine immunoglobulin signal peptide (IgSP) of SEQ ID NO: 3 fused to a tissue-type plasminogen activator (tPA) propeptide;
 - d) a DNA construct comprising a sequence encoding a fusion protein, said fusion protein comprising an IgSP-tPA pre-propertide fused to a polypeptide of interest and said IgSP-tPA pre-propertide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;

- e) a DNA construct comprising a sequence encoding a human tissue-type plasminogen activator propertide (tPA) wherein the carboxyl-terminal extremity of said tPA propertide consists of amino acids Arg-Xaa-Arg-Arg;
- f) a vector comprising a DNA construct comprising a sequence encoding an IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
- g) a vector comprising a DNA construct comprising a sequence encoding an IgSP-tPA pre-propeptide comprising a murine immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
- h) a vector comprising a DNA construct comprising a sequence encoding an IgSP-tPA pre-propeptide comprising the murine immunoglobulin signal peptide (IgSP) of SEQ ID NO: 3 fused to a tissue-type plasminogen activator (tPA) propeptide;
- i) a vector comprising a DNA construct comprising a sequence encoding a fusion protein, said fusion protein comprising an IgSP-tPA pre-propeptide fused to a polypeptide of interest and said IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide; or
- j) a vector comprising a DNA construct comprising a sequence encoding a human tissue-type plasminogen activator propeptide (tPA) wherein the carboxyl-terminal extremity of said tPA propeptide consists of amino acids Arg-Xaa-Arg-Arg;

to produce a polypeptide of interest.

- 38 (new). The process according to claim 37, further comprising the step of culturing the host cell.
- 39 (new). The process according to claim 37, further comprising the step of isolating the polypeptide of interest from said host cells.

- 40 (new). The process according to claim 37, wherein the transfection is stable transfection.
 - 41 (new). A polypeptide comprising:
 - a) an IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide;
 - b) an IgSP-tPA pre-propeptide comprising a murine immunoglobulin signal peptide fused to a tissue-type plasminogen activator (tPA) propeptide;
 - c) an IgSP-tPA pre-propeptide comprising a murine immunoglobulin signal peptide comprising SEQ ID NO: 3 fused to a tissue-type plasminogen activator (tPA) propeptide;
 - d) an IgSP-tPA pre-propeptide comprising an immunoglobulin signal peptide (IgSP) fused to a tissue-type plasminogen activator (tPA) propeptide, wherein said tPA propeptide is a human tPA propeptide, the carboxyl-terminal extremity of said tPA propeptide consisting of amino acids Arg-Xaa-Arg-Arg;
 - e) an IgSP-tPA pre-propeptide comprising a murine immunoglobulin signal peptide fused to a tissue-type plasminogen activator (tPA) propeptide, wherein said tPA propeptide is a human tPA propeptide, the carboxylterminal extremity of said tPA propeptide consisting of amino acids Arg-Xaa-Arg-Arg;
 - f) an IgSP-tPA pre-propeptide comprising a murine immunoglobulin signal peptide comprising SEQ ID NO: 3 fused to a tissue-type plasminogen activator (tPA) propeptide, wherein said tPA propeptide is a human tPA propeptide and the carboxyl-terminal extremity of said tPA propeptide consisting of amino acids Arg-Xaa-Arg-Arg;

- a human tissue-type plasminogen activator propeptide (tPA) wherein the carboxyl-terminal extremity of said tPA propeptide consists of amino acids Arg-Xaa-Arg-Arg;
- h) a tPA propeptide consisting of amino acids 23 to 32 of SEQ ID NO: 2;
- i) a human tissue-type plasminogen activator propeptide (tPA), wherein the carboxyl-terminal extremity of said tPA propeptide consists of amino acids Arg-Xaa-Arg-Arg or a tPA propeptide consists of amino acids 23 to 32 of SEQ ID NO: 2, each further comprising a signal sequence fused to said tPA propeptide; or
- j) a polypeptide of interest fused to: 1) a human tissue-type plasminogen activator propeptide (tPA) with a carboxyl-terminal extremity consisting of amino acids Arg-Xaa-Arg-Arg fused to a signal sequence or 2) a tPA propeptide consisting of amino acids 23 to 32 of SEQ ID NO: 2 fused to a signal sequence.
- 42 (new). The polypeptide according to claim 41, wherein said tPA propeptide consists of amino acids 23 to 32 of SEQ ID NO: 2.
- 43 (new). The polypeptide according to claim 41, wherein said pre-propeptide comprises SEQ ID NO: 1.
- 44 (new). The polypeptide according to claim 41, wherein said IgSP-tPA pre-propeptide fused to a polypeptide of interest.